

GLASS TORCH TECHNOLOGIES, INC.



55 N Main Street
Tioga, Pa 16946
(570)835-9777
gtt@glasstorchtch.com
www.glasstorchtch.com

INSTRUCTIONS FOR BOBCAT TORCHES:

- Set **Propane Tank Regulator** to **5 lbs.** of pressure.
- Set **Oxygen Regulator** to **10 lbs.** of pressure.
- **Red Valve** on torch controls Fuel.
- **Green Valve** on torch controls Oxygen.
- **To Start**, open the Red Valve slowly until the torch is lit. Once it is lit, adjust yellow flame to about 5 or 6 inches long and then start to open the Green Valve. The flame will turn from yellow to blue and you can then add more fuel (Red Valve) and more oxygen (Green Valve) a little at a time until a smooth blue flame is about 9 inches long and 1/2 inch in diameter. This is a good flame for most bead work. For Borosilicate Glass, keep working the valves open for a bigger, hotter flame of about 12 to 15 inches in length with a diameter of about 3/4 inch. Again, this should be a nice smooth flame. If the flame is noisy or distorts, the valves are not adjusted properly.
- **To get a tighter flame** you must use more oxygen (Green Valve). You may have to back down the fuel (Red Valve) a little. Experiment until it is the way you want.
- **If you need a brushy type flame** use more fuel (Red Valve) and less oxygen (Green Valve).
- **PRECAUTION:** We recommend that you **DO NOT** run flame lengths of less than 5 inches long until you become more experienced. This can overheat the burner if not adjusted properly and put stress on the tubes and cause damage to the torch. Also, there is more of a chance that you could get glass stuck in the face of the torch.

DO NOT leave torch run on Pilot Light for extended periods of time.

WARNINGS:

1. Never leave the area with the torch running.
2. Never leave the tank valves turned on if you leave the area, be sure to relieve pressure off torch.
3. Never get any oil on the lines and connections.
4. Use hose clamps or other approved connectors on the hose adaptors. Always check for and beware of any leaks and correct them immediately.
5. Never touch the torch on the barrel or nozzle end while it is running, or for 15 minutes or more after running.
6. Always wear Phillips Safety Eyewear or Didymium Glasses.
7. Have good ventilation in work area.
8. Keep flammable objects out of work area.
9. Keep burner pointed in a safe direction and be sure nothing flammable is within 4 feet or more, or have a fireboard backstop.
10. Secure burner to the work table.
11. Always have a fire extinguisher in its proper place.
12. Always have a small container of water by your work area to put hot glass scraps in.

**DO NOT REMOVE ANY FACTORY INSTALLED COMPONENTS.
FAILURE TO FOLW DIRECTIONS AND WARNINGS WILL VOID
FACTORY WARRANTY.**

We recommend taking a glass working class.

Port Cleaning Wire:

**Any questions call: (570) 835-9777
Glass Torch Technologies, Inc., 55 N. Main Street, Tioga, PA. 16946**

WARNINGS

Never leave the area with the torch running.

Never leave the main tank valves turned on if you leave the area, be sure to relieve pressure off torch.

Always make sure torch base and lines are anchored and secure.

Always be alert for gas and oxygen leaks. Fix them right away no matter how insignificant they may seem.

Have good exhaust ventilation in work area.

Keep flammable objects and lighters away from work table area.

Have non-flammable tabletop and back wall.

Secure gas and oxygen tanks with strap or chain them to wall; never let tanks free standing.

Always have a small container of water by your work area to put hot glass scraps in.

Always use Phillips Safety Eyewear or Didymium Glasses to protect your eyes from glare and flying pieces of glass.

Always keep a fire extinguisher close by in the work area.

Never get any oil or grease on the lines or connections.

Never touch the torch on the barrel or nozzle end while it is running, or for 15 minutes or more after running.

Use hose clamps or other approved connectors on the hose adaptors. Always check for and beware of any leaks and correct them immediately.

Never remove adaptors or any component with filter screens present. Removing filter screens may allow foreign material into the torch potentially damaging valve seats and clog internal components.

Do not strike torch with glass or other hard object. Dents or damage may occur.

Do not subject the torch to excessive heat, flame, kilns, ovens or hand torches.

Do not install premix torches in the same supply hose with any other torch. Flashback can occur and damage the other torches. If a premix torch is installed it **MUST** have flashback arrestors installed on the premix torch hoses *before* the connection to the main supply hose. Flashback arrestors placed at the tank will only protect the tank and regulators, not other torches in the system.

DO NOT REMOVE ANY FACTORY INSTALLED COMPONENTS. FAILURE TO FOLLOW DIRECTIONS AND WARNINGS WILL VOID FACTORY WARRANTY.

FAILURE TO OBSERVE SAFETY RULES
COULD RESULT IN INJURY OR DEATH.